

DT14 PCT/PTO 1 2 JAN 2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: LIEDY, Werner
Serial No.: 10/510,980 UNOFFICIAL
Filed: April 10, 2003
Title: REACTOR AND METHOD FOR TREATING FLUIDS BY USING
PHOTOCATALYSIS COUPLED WITH PHOSPHORESCENT SOLIDS

Group:
Examiner:
Attorney Ref.: PAT 2480W-2 US

January 11, 2005

Commissioner for Patents
U.S. Patent and Trademark Office
220 20th Street S.
Mail Stop Amendment
Crystal Plaza Two, Lobby, Room 1B03
Arlington VA 22202
U.S.A.

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 , the applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449, attached hereto.

II. COPIES

(check at least one box)

- ☒ a. No U.S. patent or published application copies are enclosed.
- Where applicable, submitted herewith is a legible copy of (i) each Foreign patent or application; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☐ b. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search

- Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.
- ☐ c. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

- ☒ a. DOCUMENTS IN THE ENGLISH LANGUAGE
The attached patents, publications, or other information in the English language do not require a statement of relevancy.
- ☒ b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE
A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:
- English Abstract accompanying EP 0 738 686

- Lettmann, Christian "Konventionelle und kombinatorische....
[Conventional and combinatorial development of mixed oxides for the photocatalytic purification of water with visible light]": This reference discloses the use of mixed oxides for the photocatalytic purification of water with visible light. Further discussion of this reference is found on pages 1-2, lines 16 to 2 of the specification.
- ☐ c. ENGLISH LANGUAGE SEARCH REPORT
An English language version of the search report or action that indicates the degree of relevance found by the foreign Patent Office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A) (3).
- ☐ d. OTHER
The following additional information is provided for the Examiner's consideration.

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97 (b):
(check one box)

- ☐ a. Within three months of the filing date of a national application (37 C.F.R. § 1.97 (b) (1)). No fee or statement is required. (This section is not to be used with RCE's AND CPA's.)
- ☒ b. Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97 (b) (2)). No fee or statement is required.
- ☐ c. Concurrently with the filing of a Continued Prosecution Application under 37 C.F.R. § 1.53 (d) or concurrently with the filing of a Request for Continued Examination under § 1.114 (37 C.F.R. § 1.97 (b) (4)). No fee or statement is required.
- ☐ d. Before the mailing date of a first Action on the merits (37 C.F.R. § 1.97 (b) (3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97 (e) below, or, if no statement has been made, charge our deposit account in the amount of **\$180.00** as required by 37 C.F.R. § 1.17 (p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97 (c):
(check one box)

- ☐ a. No statement; therefore, a fee in the amount of **\$180.00** as required by 37 C.F.R. § 1.17 (p).
- ☐ b. See the statement below. No fee is required.

VI. STATEMENT UNDER 37 C.F.R. § 1.97 (e)
(check only one box)

The undersigned hereby states that

- ☐ a. Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

- ☐ b. No item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of IDS was known to any individual designated in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of the IDS.
- ☐ c. Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in the 37 C.F.R. § 1.56 (c) more than three months prior to the filing of this statement.

VII. PAYMENT OF FEES
(check one box)

- ☐ Please charge Deposit Account No. 501593 in the amount required by 37 C.F.R. § 1.17 (p) for the above-indicated fee. A duplicate copy of this paper is attached.
- ☒ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 501593.

If the preceding amount is incorrect, any deficiency or overpayment should also be charged or credited to Deposit Account No. 501593, in the name of Borden Ladner Gervais LLP.

Respectfully submitted,
Werner LIEDY



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GCS/AAB/aab
Encls.

☒ PTO-1449

☒ References (9) (10)



Form PTO-1449 INFORMATION DISCLOSURE STATEMENT				Complete if Known	
				Application No.:	10/510,980 (UNOFFICIAL)
				Filing Date:	April 10, 2003 (International Filing Date)
				First Named Inventor:	Werner LIEDY
				Group Art Unit:	
				Examiner Name:	
Sheet	1	of	2	Attorney Docket No.:	PAT 2480W-2

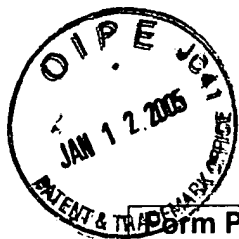
U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document No.	Date of Publication mm-dd-yyyy	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6,107,241	08/22/2000	Ogata et al.	

FOREIGN PATENT DOCUMENTS

Exam. Initials	Cite No.	Patent Document No.	Date of Publication mm-dd-yyyy	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ✓	Check if English Translation is attached
		EP 0812619	12/17/1997	Eastman Kodak Company			
		EP 0738686	04/11/1996	Rohm GmbH		✓	
		EP 0233498B1	08/21/1991	Hitachi, Ltd.			
		WO 96/36565	11/21/1996	Photo-Catalytics, Inc.			
		WO 95/11751	05/04/1995	E. Heller & Company			
		WO 98/17390	04/30/1998	E. Heller & Company			
		WO 00/24969	05/04/2000	Cleanosol AB			
		JP Abstract 08266902	10/15/1996	Mitsubishi Paper Mills Ltd.			

Examiner Signature:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.	



Form PTO-1449 INFORMATION DISCLOSURE STATEMENT				Complete if Known	
				Application No.:	10/510,980 (UNOFFICIAL)
				Filing Date:	April 10, 2003
				First Named Inventor:	Werner LIEDY
				Group Art Unit:	
				Examiner Name:	
Sheet	2	of	2	Attorney Docket No.:	PAT 2480W-2

FOREIGN PATENT DOCUMENTS

Examine r Initials	Cite No.	Patent Document No.	Date of Publication mm-dd- yyyy	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ✓ Translation is	Check if English

OTHER DOCUMENTS

		Bahnemann, "Photocatalytic Detoxification of Polluted Waters", <i>The Handbook of Environmental Chemistry</i> , Vol. 2, Part L, 1999, pp. 285-351.
		Lettmann, "Konventionelle und kombinatorische Entwicklung von Mischoxiden zur photokatalytischen Wasserreinigung mit sichtbarem Licht", <i>Dissertation zur Erlangung des Grades des Doktors der Naturwissenschaften der Naturwissenschaftlich-technischen Fakultät III, Chemie Pharmazie und Werkstoffwissenschaften der Universität des Saarlandes</i> , 2001.

Examiner Signature:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.	